Approved For Release 2000/04/18 : CIA-RDP81B00878R001400020022-6

|  |   |  | DJ DK  | 2   |                   |  |
|--|---|--|--|---|-------------------|--|
|  |   |  | DIC DK   | NOV 1 2 1957  | ı                 |  |
| MEMORA   | HIMM FOR: Pro   | ect Director   |  |   |                   |  |
| ATTENTION :  |   |  |  | 2   | 25X1A             |  |
| SUBJEC   | T : Remo  | -Wooldridge Pro  | posal for Syst                                     | em VI   |                   |  |
| qontai   | 1. ns two features  | proposal as a which need to  | submitted verbs<br>be considered                   | ally on 5 Hovember<br>at greater length   | 25X1A             |  |
| 25X1D  to reduce the number of recorders and record the output of 8 satemass (four receivers) on two type channels. While perhaps attractive at first glance, this should be avoided if at all possible. Even under ideal conditions it reduces the probability of intercept of  by three-quarters over that of a System VI using two recorders. This loss in effectiveness can ill be afforded if the original concept of a high-probability intercept System is to be kept. The cost of the additional recorder is only 25 lbs. (whose location in the aircraft is non-critical as far as System VI is concerned) and the potential gain afforded by this extra weight is enormous. To keep the intercept probability high, switching between "left" and "right" antennas should also be avoided.  had proposed that instead of switching, the gain of one enterma be periodically out down, a concept that should be retained.  B. Low Frequency Receiver and Ambennas: As you are aware, there |   |  |  |   |                   |  |
| •<br>·   | is currently bentenna (spira use in the 50-                         | eing constructe<br>l embedded in a<br>100 mg/s band w<br>e ferrite anter<br>to commit ours | d for us by an high di-elect                       | other contractor s<br>ric constant mediu<br>form about 100 time<br>reposes to use. We<br>tes before full da | m) for            |  |
|  | on the transia<br>There have all<br>and more work<br>for use in Sys | torized video a<br>ready been some<br>needs to be don<br>tem VI.                           | electrical tro<br>electrical tro<br>e before we ca | recently begun<br>proposed for Syst<br>while with this equal<br>on be sure it is su                         | ipment<br>iitable |  |
| 11/13/57   | ang   | t RMB  | This day   | <b>6</b> . Inle 7   | he cy             |  |
| BOTHMENT NO.   | 13.288. X   | Ð  |  |   | 25X1A             |  |

Approved For Release 2000/04/18 : CIA-RDP81B00878R001400020022-6

25X1D 25X1D

## Approved For Release 2000/04/18 CIA-RDP81B0<del>0</del>878R001400020022-6

2. Of course, all of the above is very much a preliminary reaction, since we do not yet have a complete proposal from NW. I would urge, however, that it be decided to retain the extra recorder and thus avoid timesharing between receiver channels. The 25 lbs. additional here may save many heartbreaks later.

Acting Miler Starr Officer

25X1A

Distribution:

Copy 1 & 2 - fwd 3 & 4 - ESO

5 - Project Chron